

ADDITIONAL REGIONAL GEOLOGIC MAPSStructure/Subcrop, Top Latrobe Unconformity

The map generally depicts an east/southeast-plunging synformal surface, the simplicity of which is interrupted only by the Marlin and Tuna-Flounder erosional channels and a northeast-trending transverse ridge extending along the trend of the major oil fields of the basin.

Over much of the map area, the Latrobe Group delta-plain facies subcrops to the Top Latrobe Unconformity. Notably high sand percentages (greater than 80%) occur in this facies in the central and east-central portions of the basin.

In the southern portion of the map area, continental Latrobe Group sediments subcrop to the Top Latrobe Unconformity, as may also be the case in the area of Groper-1 and 2.

The Latrobe delta-front facies subcrops to the Top Latrobe Unconformity in the west-central and northwestern portions of the map area, with notably high sand percentages (greater than 80%) in the vicinity of Kingfish Field.

The Top Latrobe Unconformity ranges in depth from 610 meters (Golden Beach-1A) to 2804 meters (Hapuku-1).

Base Latrobe Delta-Front Facies

This map serves to show regional structure of an intra-Latrobe zone which is not incised by the Top Latrobe Unconformity. In general, it portrays a southeast-plunging synclinorium, with subsidiary southeast-plunging folds in the central and northwestern portions of the map area. The depth of this surface ranges from 838 meters (Albatross-1) to 3065 meters (Hapuku-1).

The Base Delta-Front surface is thermally mature (vitrinite reflectance greater than 0.45) over much of the map area.